PCT

REQUEST

The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty

| For receiving Office use only |
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| International Application No. |
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| International Filing Date |
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| Name of receiving Office and "PCT International Application" |
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| according to the Patent Cooperation Treaty. | | Name of receiving Office and "PCT International Application" | | | | | | |
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| | | Applicant's or agent's f (if desired) (12 characte | | | file reference ters maximum) P020815WO DAA | | | |
| Box No. 1 TITLE OF I | NVENTION | | | | | | | |
| Box No. II APPLICAN | r | This person | n is also inventor | | | | | |
| Name and address: (Family na The address must include postal c Box is the applicant's State (that is | ode and name of count | ry. The country of the | he address indicated is | this | Telephone No. | | | |
| Danisco A/S | | | | | Facsimile No. | | | |
| Langebrogade 1 PO Box 17 | 14 | | | | Teleprinter No. | | | |
| DK-1001 Copenhag Denmark | gen K | | | | Applicant's regis | tration No. with the Office | | |
| State (that is, country) of national Denmark | onality: | | State (that is, con Denmark | intry) | of residence: | | | |
| This person is applicant for the purposes of: | all designated States | all designate the United S | d States except tates of America | | the United States of America only | the States indicated in the Supplemental Box | | |
| Box No. III FURTHER | APPLICANT(S) A | ND/OR (FURT) | HER) INVENTOR | R(S) | | : | | |
| Name and address: (Family not The address must include postal of Box is the applicant's State (that is COYNE, Bob 9209 Allman Lenexa, KS 66219 United States of Ar | ode and name of count s, country) of residence | try. The country of t | he address indicated i | n this | inventor marked, | at only at and inventor only (If this check-box is do not fill in below.) stration No. with the Office | | |
| State (that is, country) of nati | | | State (that is, con | | | | | |
| United States of Ar This person is applicant for the purposes of: | nerica all designated States | all designate | United Sta d States except tates of America | V | of America the United States of America only | the States indicated in the Supplemental Box | | |
| Further applicants and | or (further) invento | ors are indicated | on a continuation sl | | | | | |
| Box No. IV AGENT OR | COMMON REPI | RESENTATIVE | ; OR ADDRESS | FOR | CORRESPOND | ENCE | | |
| The person identified below of the applicant(s) before the | is hereby/has been competent Internat | appointed to act of to appoint the state of | on behalf as: | X | agent | common representative | | |
| Name and address: (Family na The address | ume followed by given r ss must include postal | | | tion. | Telephone No. +44 23 8071 | 9500 | | |
| ALCOCK, David D Young & Co | | | Facsimile No. +44 23 8071 9800 | | | | | |
| 21 New Fetter Lane London | | | | | Teleprinter No. 477667 YOU | NGS G | | |
| EC4A 1DA GB | | | | | Agent's registrati | ion No. with the Office | | |
| Address for corresponding | ndence: Mark this | check-box where | no agent or commo | on rep | resentative is/has | been appointed and the | | |

| Sheet | No | | 2 | • | |
|-------|----|--|---|---|--|
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| Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) | | | | | |
|---|---|---|--|--|--|
| If none of the following sub-boxes is used, this sheet should not be included in the request. | | | | | |
| Name and address: (Family name followed by given name; for a legal entity The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residenc | address indicated in this | This person is: applicant only | | | |
| FARAGHER, John | | applicant and inventor | | | |
| 3639 E. Cliffe Drive Richfield, WI 53076 | | inventor only (If this check-box is marked, do not fill in below.) | | | |
| United States of America | | | | | |
| | | Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality: United States of America | State (that is, country) United States | | | | |
| This person is applicant all designated all designated for the purposes of: | States except ates of America | the United States of America only the States indicated in the Supplemental Box | | | |
| Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the | e address indicated in this | This person is: | | | |
| Box is the applicant's State (that is, country) of residence if no State of residence | e is inaicatea betow.) | applicant only | | | |
| GOUIN, Sébastien Tjorvaldsensgade 30, 6TV | | applicant and inventor inventor only (If this check-box | | | |
| DK-Århus 8000 | | is marked, do not fill in below.) | | | |
| Denmark | | Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality: Canada | State (that is, country) Denmark | of residence: | | | |
| This person is applicant for the purposes of: all designated the United States all designated the United States | | the United States the States indicated in the Supplemental Box | | | |
| Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence HANSEN, Carsten Bjorn Svanesmindevej 1. Esby DK-8420 Knebel Denmark | This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) | | | | |
| Defiliark | | Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality: Denmark | State (that is, country, Denmark | of residence: | | | |
| This person is applicant all designated all designated for the purposes of: | | the United States the States indicated in the Supplemental Box | | | |
| Name and address: (Family name followed by given name; for a legal entithe address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence if no State of the INGRAM, Richard 3 Athelney Way Yeovil | ne address indicated in this | This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) | | | |
| Somerset BA21 3TN United Kingdom | | Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality: United Kingdom State (that is, country) of residence: United Kingdom | | | | | |
| | | the United States of America only the States indicated in the Supplemental Box | | | |
| Further applicants and/or (further) inventors are indicated on another continuation sheet. | | | | | |

| Continuation of Box No. III FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) | | | | | |
|---|---------------------------------------|---|--|--|--|
| If none of the following sub-boxes is used, this sheet should not | be included in the req | uest. | | | |
| Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence ISAK, Torben Birkhøjen 79 DK-8382 Hinnerup Denmark | e address indicated in this | This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality: Denmark | State (that is, country, Denmark | of residence: | | | |
| This person is applicant all designated for the purposes of: | | the United States of America only the States indicated in the Supplemental Box | | | |
| Name and address: (Family name followed by given name; for a legal entity. The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence. THOMAS, Linda Valerie 57 Queens Avenue Dorchester Dorset DT1 2EP United Kingdom | e address indicated in this | This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality: United Kingdom | State (that is, country United Kingdo | | | | |
| This person is applicant all designated all designated for the purposes of: | States except ates of America | the United States of America only the States indicated in the Supplemental Box | | | |
| Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of the Box is the applicant's State (that is, country) of residence if no State of residence TSE, Kathryn Louise Ved Amagerport 2, 2. TV DK-2300 Københaven S Denmark | e address indicated in this | This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality: New Zealand | State (that is, country Denmark |) of residence: | | | |
| This person is applicant all designated all designated for the purposes of: | l States except ates of America | the United States of America only the States indicated in the Supplemental Box | | | |
| Name and address: (Family name followed by given name; for a legal entit The address must include postal code and name of country. The country of th Box is the applicant's State (that is, country) of residence if no State of residence | e address indicated in this | This person is: applicant only applicant and inventor inventor only (If this check-box is marked, do not fill in below.) Applicant's registration No. with the Office | | | |
| State (that is, country) of nationality: State (that is, country) of residence: | | | | | |
| | States except ates of America | the United States of America only the States indicated in the Supplemental Box | | | |
| Further applicants and/or (further) inventors are indicated on another continuation sheet. | | | | | |

Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which Continuation of Box No. IV. a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No...." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- if, in Box No. II or in any of the sub-boxes of Box No. III, the ALCOCK, David; (iii) inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor:
- if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- if, in Box No. VI, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- 2. If the applicant intends to make an indication of the wish that the international application be treated, in certain designated States, as an application for a patent of addition, certificate of addition, inventor's certificate of addition or utility certificate of addition: in such a case, write the name or two-letter code of each designated State concerned and the indication "patent of addition," "certificate of addition," "inventor's certificate of addition" or "utility certificate of addition," the number of the parent application or parent patent or other parent grant and the date of grant of the parent patent or other patent grant or the date of filing of the parent application (Rules 4.11(a)(iii) and 49bis. I(a) or (b)).
- If the applicant intends to make an indication of the wish that the international application be treated, in the United States of America, as a continuation or continuation-in-part of an earlier application: in such a case, write "United States of America" or "US" and the indication "continuation" or "continuation-in-part" and the number and the filing date of the parent application (Rules 4.11(a)(iv) and 49bis.1(d)).

PILCH, Adam John Michael; CRISP, David Norman; ROBINSON, Nigel Alexander Julian; HARRIS, Ian Richard: HARDING, Charles Thomas; TURNER, James Arthur, MALLALIEU, Catherine Louise; PRATT, Richard Wilson; MASCHIO, Antonio; HORNER, David Richard; NACHSHEN, Neil Jacob; PRICE, Paul Anthony King: HAINES, Miles John; DEVILE, Jonathan Mark; COTTER, Ivan John; TANNER, James Percival: KHOO, Chong-Yee; HOLLIDAY, Louise Caroline; MILLS, Julia; **HECTOR**, Annabel Mary; GALLAGHER, Kirk James; WILLIAMS, Aylsa; MCGOWAN, Cathrine; DAVIES, Simon Robert; FURLONG, Isla Jane; CLYDE-WATSON, Zöe; MELDRUM, David James; ILLINGWORTH-LAW, William; BRADLEY, Josephine Mary; FENNELL, Gareth Charles; SOAMES, Candida Jane; LEPPARD, Andrew John; RICHARDS, William John; SIMCOX, Michael Thomas

all of D YOUNG & CO, 21 New Fetter Lane, London, EC4A 1DA, GB

Sheet No. 5

| Box No. V DESIGNATIONS | | | | | |
|---|--|--|--|---|--|
| The filing of the filing date, for | The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents. | | | | |
| However, | | | | | |
| _ | _ | signated for any kind of nation | | | |
| | | is not designated for any kir | _ | | |
| | | n is not designated for any ki | | | |
| the national la | ıw. of an earlie | be used to exclude (irrevocabl r national application from w in these and certain other St | hich priority is claimed. So | ned in order to avoid the e ee the Notes to Box No. V | ceasing of the effect, under as to the consequences of |
| Box No. VI | PRIORITY | CLAIM | | | |
| The priority o | f the following | earlier application(s) is hereb | y claimed: | , | |
| Filing | date | Number | v | Vhere earlier application | is: |
| of earlier a (day/mor | pplication | of earlier application | national application: country or Member of WTO | regional application:* regional Office | international application: receiving Office |
| item (1) 22 Augu (22/08 | ıst 2003 /2003) | 0319817.3 | GB | | |
| item (2) 6 Octob (06/10 | | 0323335.0 | GB | | |
| item (3) 22 Augu (22/08 | ıst 2003 /2003) | 60/497,409 | us | | |
| Further p | oriority claims | are indicated in the Suppleme | ntal Box. | | |
| The receiving the earlier ap above as: | Office is requiplication was fi | ested to prepare and transmit t iled with the Office which for t | o the International Bureau he purposes of this interna | a certified copy of the ea tional application is the r | rlier application(s) (only if receiving Office) identified |
| all items | | - | , <u> </u> | | ee Supplemental Box |
| * Where the e | arlier applicati operty or one M | ion is an ARIPO application, it fember of the World Trade Ot | ndicate at least one country rganization for which that c | y party to the Paris Conve earlier application was fi | ention for the Protection of led (Rule 4.10(b)(ii)): |
| | | | | | • |
| Box No. VII | INTERNA | TIONAL SEARCHING AU | THORITY | | |
| Choice of In international | ternational Se search, indicate | arching Authority (ISA) (if a the Authority chosen; the two | two or more International So-letter code may be used): | Searching Authorities are | competent to carry out the |
| ISA / . EP | ο | | | | |
| | Request to use results of earlier search; reference to that search (if an earlier search has been carried out by or requested from the International Searching Authority): | | | | |
| Date (day/month/year) Number Country (or regional Office) | | | | | |
| Box No. VIII DECLARATIONS | | | | | |
| The following declarations are contained in Boxes Nos. VIII (i) to (v) (mark the applicable check-boxes below and indicate in the right column the number of each type of declaration): Number of declarations | | | | | |
| Box No. VIII (i) Declaration as to the identity of the inventor : | | | | | |
| Box No | Box No. VIII (ii) Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent: | | | | |
| Box N | Box No. VIII (iii) Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application: | | | | |
| Box No | Box No. VIII (iv) Declaration of inventorship (only for the purposes of the designation of the United States of America): | | | | |
| Box N | Box No. VIII (v) Declaration as to non-prejudicial disclosures or exceptions to lack of novelty : | | | | |

Supplemental Box

If the Supplemental Box is not used, this sheet should not be included in the request.

- If, in any of the Boxes, except Boxes Nos. VIII(i) to (v) for which a special continuation box is provided, the space is insufficient to furnish all the information: in such case, write "Continuation of Box No...." (indicate the number of the Box) and furnish the information in the same manner as required according to the captions of the Box in which the space was insufficient, in particular:
- (i) if more than two persons are to be indicated as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below;
- (ii) if, in Box No. II or in any of the sub-boxes of Box No. III, the indication "the States indicated in the Supplemental Box" is checked: in such case, write "Continuation of Box No. II" or "Continuation of Box No. III" or "Continuation of Box No. III and No. III" (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
- (iii) if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Box No. II" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor:
- (iv) if, in addition to the agent(s) indicated in Box No. IV, there are further agents: in such case, write "Continuation of Box No. IV" and indicate for each further agent the same type of information as required in Box No. IV;
- (v) if, in Box No. VI, there are more than three earlier applications whose priority is claimed: in such case, write "Continuation of Box No. VI" and indicate for each additional earlier application the same type of information as required in Box No. VI.
- 2. If the applicant intends to make an indication of the wish that the international application be treated, in certain designated States, as an application for a patent of addition, certificate of addition, inventor's certificate of addition or utility certificate of addition: in such a case, write the name or two-letter code of each designated State concerned and the indication "patent of addition," "certificate of addition," "inventor's certificate of addition," the number of the parent application or parent patent or other parent grant and the date of grant of the parent application (Rules 4.11(a)(iii) and 49bis.1(a) or (b)).
- 3. If the applicant intends to make an indication of the wish that the international application be treated, in the United States of America, as a continuation or continuation-in-part of an earlier application: in such a case, write "United States of America" or "US" and the indication "continuation" or "continuation-in-part" and the number and the filing date of the parent application (Rules 4.11(a)(iv) and 49bis.1(d)).

Continuation of Box No. VI.

PRIORITY CLAIM

Item (4) 30 December 2003 60/533,053 US (30/12/2003)

Item (5) 8 April 2004 (08/04/2004) 60/560,270 US

Item (6) 8 April 2004 10/820,147 US (08/04/2004)

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| Cheet | No | , |

| Box No. IX CHECK LIST; LANGUAGE OF FILING | | | | | | |
|---|---------------------------|--|---|--|--|--|
| This international application contains: (a) in paper form, the following number of sheets: | item(s) (mai | tional application is accompanied by the following rk the applicable check-boxes below and indicate in a the number of each item): | Number of items | | | |
| request (including | | calculation sheet | : | | | |
| declaration sheets) : 7 | 2. 🔲 orig | ginal separate power of attorney | : | | | |
| description (excluding sequence listing and/or | 3. 🔲 orig | ginal general power of attorney | : | | | |
| tables related thereto) : 41 | | by of general power of attorney; reference number, | | | | |
| claims : 6 | | ny: | • | | | |
| abstract : 1 | | ority document(s) identified in Box No. VI as | • | | | |
| drawings : 8 | iter | n(s): | : | | | |
| Sub-total number of sheets : 63 sequence listing : | 7. 🔲 trai | nslation of international application into | : | | | |
| tables related thereto : (for both, actual number of | 8. Sep | parate indications concerning deposited microorgan other biological material | ism : | | | |
| sheets if filed in paper form, whether or not also filed in computer readable form; | (in | uence listing in computer readable form dicate type and number of carriers) | | | | |
| see (c) below) ———— | (i) 🗆 | copy submitted for the purposes of international sea Rule 13ter only (and not as part of the international | arch under application) : | | | |
| Total number of sheets : 63 (b) only in computer readable form | (ii) 🗖 | (only where check-box (b)(i) or (c)(i) is marked in left additional copies including, where applicable, the courses of international search under Rule 13ter | column) | | | |
| (Section 801(a)(i)) (i) ☐ sequence listing | (iii) 🗖 | together with relevant statement as to the identity of copies with the sequence listing mentioned in left copies. | f the copy or clumn : | | | |
| (ii) ☐ tables related thereto (c) ☐ also in computer readable form | 10. 🗖 tab | les in computer readable form related to sequence lidicate type and number of carriers) | | | | |
| (Section 801(a)(ii)) (i) ☐ sequence listing (ii) ☐ tables related thereto | (i) 🗖 | copy submitted for the purposes of international sea Section 802(b-quater) only (and not as part of the in | arch under nternational | | | |
| Type and number of carriers (diskette, | (ii) □ | application) (only where check-box (b)(ii) or (c)(ii) is marked in lef | : f(column) | | | |
| CD-ROM, CD-R or other) on which are contained the | () | additional copies including, where applicable, the c purposes of international search under Section 802 | copy for the | | | |
| sequence listing: | (iii) | together with relevant statement as to the identity o copies with the tables mentioned in left column | f the copy or | | | |
| tables related thereto: | | ner (specify): Letter and Patents Form 23/77 | | | | |
| items 9(ii) and/or 10(ii), in right column) | | (- - | | | | |
| Figure of the drawings which should accompany the abstract: | Language of international | of filing of the English | | | | |
| | | OR COMMON REPRESENTATIVE vacity in which the person signs (if such capacity is not obvious | from reading the request). | | | |
| DAVID ALCOCK | | | | | | |
| For receiving Office use only | | | | | | |
| Date of actual receipt of the purported international application: | | | 2. Drawings: | | | |
| плетанова аррисанов: | | | received: | | | |
| 3. Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application: | | | | | | |
| 4. Date of timely receipt of the required corrections under PCT Article 11(2): | not received: | | | | | |
| 5. International Searching Authority (if two or more are competent): ISA / 6. Transmittal of search copy delayed until search fee is paid | | | | | | |
| For International Bureau use only | | | | | | |
| Date of receipt of the record copy by the International Bureau: | | | | | | |
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